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OF THE UNITED STATES
COMMISSION ON THE STATUS OF WOMEN
JANUARY 1964-1965

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16 February 1953

MEMORANDUM FOR: Assistant Director for Scientific Intelligence

FROM: P. C. Duvant

SUBJECT: Report of Meetings of the Office of Scientific Intelligence Scientific Advisory Panel on Unidentified Flying Objects, January 31 - 18, 1953

PURPOSE

The purpose of this memorandum is to present:

- a. A brief history of the meetings of the O/SI Advisory Panel on Unidentified Flying Objects (Part I),
- b. An unofficial supplement to the official Panel Report to AD/SI setting forth comments and suggestions of the Panel Members which they believed were inappropriate for inclusion in the formal report (Part II).

PART I: HISTORY OF MEETINGS

GENERAL

After consideration of the subject of "Unidentified flying objects" at the 4 December meeting of the Intelligence Advisory Committee, the following action was agreed:

"The Director of Central Intelligence will:

- a. Enlist the services of selected scientists to review and organize the available evidence in the light of pertinent scientific theories...."

Referring the development of this action to the Assistant Director for Scientific Intelligence for preliminary investigation.

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an Advisory Panel of selected scientists was assembled. In cooperation with the Air Technical Intelligence Center, case histories of reported sightings and related material were made available for study and consideration.

Present at the initial meeting (1000 Wednesday, 21 January) were: Dr. H. P. Robertson, Dr. Louis H. Thomas, Dr. Thornton Page, Dr. Samuel A. Gendall, Mr. William C. Strong, Lt. Col. Frederick G. B. Oiler (JAG Division), Mr. David R. Stevenson (JAG Division), and the writer. David Thomas, Dr. Lloyd V. Berkner, was absent until Friday afternoon. Messrs. Oiler and Stevenson were present throughout the meeting to familiarize themselves with the subject, represent the substantial interest of their Divisions, and assist in administrative support of the meetings. (A list of personnel concerned with the meetings is given in Tab A).

DISCUSSION

The AD/SI opened the meeting, reviewing CIA interest in the subject and action taken. This review included the mention of the O/SI Study Group of August 1952 (Strong, Eng, and Parent) culminating in the briefing of the JAG, the JAGC December 21 briefing, A-1 action JAG consider [unclear], [unclear] to JAG (Chadwell, Robertson and Berkner), and O/SI concern over potential dangers to national security indirectly related to these sightings. Mr. Strong summarized these potential dangers, emphasizing this situation, Dr. Chadwell took the meeting over to

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THURSDAY AFTERNOON

The third and fourth meetings of the Panel were held Thursday, 15 January, commencing at 0900 with a two-hour break for luncheon. Besides Panel members and CIA personnel, Mr. Ruppolt and Dr. Hynok were present for both sessions. In the morning, Mr. Ruppolt continued his briefing on ATIC collection and analysis procedures. The Project STORK support at Battelle Memorial Institute, Columbus, was described by Dr. Hynok. A number of case histories were discussed in detail and a motion picture film of seagulls was shown. A two hour break for lunch was taken at 1200.

THURSDAY AFTERNOON

At 1400 hours Lt. Col. Oler gave a 40-minute briefing of Project TWINKLE, the investigatory project conducted by the Air Force Meteorological Research Center at Cambridge, Mass. In this briefing he pointed out the many problems of setting up and running 24-hour instrumentation watches of patrol cameras searching for sightings of U.F.O.'s.

At 1615 Brig. Gen. William M. Garland joined the meeting with AD/51. General Garland expressed his support of the Panel's efforts and stated three personal opinions:

- a. That greater use of Air Force intelligence officers in the field (for follow up investigation) was most desirable, but that they required thorough briefing.

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- b. That vigorous effort should be made to declassify as many of the reports as possible.
 - c. That some increase in the ATIC section devoted to U.F.O. analysis was indicated.

This meeting was adjourned at 1700.

FRIDAY MORNING

The fifth session of the Panel convened at 0900 with the same personnel present as enumerated for Thursday (with the exception of Brig. Gen. Garland).

From 0900 - 1000 there was general discussion and study of reference material. Also, Dr. Hynck read a prepared paper making certain observations and conclusions. At 1000 Mr. Fournet gave a briefing on his fifteen months experience in Washington as Project Office for U.F.O.'s and his personal conclusions. There was considerable discussion of individual case histories of sightings to which he referred. Following Mr. Fournet's presentation, a number of additional case histories were examined and discussed with Messrs. Fournet, Ruppolt, and Hynck. The meeting adjourned at 1200 for luncheon.

FRIDAY AFTERNOON

This session opened at 1400. Besides Panel Members and CIA personnel, Dr. Hynck was present. Dr. Lloyd V. Berkner, as Panel Member, was present at this meeting for the first time. Progress of the meetings was reviewed by the Panel Chairman and tentative

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conclusions reached. A general discussion followed and tentative recommendations considered. It was agreed that the Chairman should draft a report of the Panel to AD/SI that morning for review by the Panel the next morning. The meeting adjourned at 1715.

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At 0945 the Chairman opened the meeting and submitted a rough draft of the Panel Report to the members. This draft had been reviewed and approved earlier by Dr. Byrd. The next two and one-half hours were consumed in discussion and revision of the draft. At 1100 the AD/SI joined the meeting and reported that he had shown and discussed a copy of the initial rough draft to the Director of Intelligence, USAF, whose reaction was favorable. At 1200 the meeting was adjourned.

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At 1400 the eighth and final meeting of the Panel was opened. Discussion and rewriting of certain sentences of the Report occupied the first hour. A copy of the final report is appended as Tab C. This was followed by a review of work accomplished by the Panel and statement of individual Panel Member's opinions and suggestions on details that were felt inappropriate for inclusion in the final report. It was agreed that the members would in separate blocks contribute in an informal report to the AD/SI. The material below represents this information.

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PART III: CONCLUSIONS AND SUGGESTIONS OF PANEL

GENERAL

The Panel Members were impressed (as have been others, including O/SI personnel) in the lack of sound data in the great majority of case histories; also, in the lack of speedy follow-up due primarily to the modest size and limited facilities of the ATIC section concerned. Among the case histories of significant sightings discussed in detail were the following:

Bellefontaine, Ohio (1 August 1952); Trenton, Utah (2 July 1952); Great Falls, Montana (15 August 1950); Enak, Montana (1 September 1952); Washington, D. C. area (29 July 1952); and Haneda A.F.B., Japan (5 August 1952), Fort Warren, Michigan (29 July 1952); and Presque Isle, Maine (10 October 1952).

After review and discussion of these cases (and about 25 others, in less detail), the Panel concluded that reasonable explanations could be suggested for most sightings and "by deduction and scientific method it could be inferred (given additional data) that other cases might be explained in a similar manner". The Panel pointed out that because of the brevity of some sightings (e.g. 2-3 seconds) and the inability of the witnesses to express themselves clearly (quantitatively) that conclusive explanations could not be expected for every case reported. Furthermore, it was considered that, normally, it would be a great waste of effort to try to solve most of the sightings, unless such action would benefit a training and educational program (see below). The writings of Charles Fort were referenced to show

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that "strange things in the sky" had been recorded for hundreds of years. It appeared obvious that there was no single explanation for a majority of the things seen. The presence of radar and astronomical specialists on the Panel proved of value at once in their confident recognition of phenomena related to their fields. It was apparent that specialists in such additional fields as psychology, meteorology, aerodynamics, ornithology and military air operations would extend the ability of the Panel to recognize many more categories of little-known phenomena.

ON LACK OF DANGER

The Panel concluded unanimously that there was no evidence of a direct threat to national security in the objects sighted. Instances of "Foo Fighters" were cited. These were unexplained phenomena sighted by aircraft pilots during World War II in both European and Far East theaters of operation wherein "balls of light" would fly near or with the aircraft and maneuver rapidly. They were believed to be electrostatic (similar to St. Elmo's fire) or electromagnetic phenomena or possibly light reflections from ice crystals in the air, but their exact cause or nature was never defined. Prof. Robertson and Alvarez had been concerned in the investigation of these phenomena, but David T. Geiger (Professor of Geophysics at the University of California at Los Angeles) is believed to have been the most knowledgeable person on this subject. If the term "flying saucers" had been popular in 1943 - 1945, these objects would

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have been so labeled. It was interesting that in at least two cases reviewed that the object sighted was categorized by Robertson and Alvarez as probably "Foo Fighters", to date unexplained but not dangerous; they were not happy then to dismiss the sightings by calling them noise. It was their feeling that these phenomena are not beyond the domain of present knowledge of physical sciences, however.

AIR FORCE REPORTING SYSTEM

It was the Panel's opinion that some of the Air Force concern over U.F.O.'s (notwithstanding Air Defense Command anxiety over fast radar tracks) was probably caused by public pressure. The result today is that the Air Force has instituted a fine channel for receiving reports of nearly anything anyone sees in the sky and fails to understand. This has been particularly encouraged in popular articles on this and other subjects, such as space travel and science fiction. The result is the mass receipt of low-grade reports which tend to overload channels of communication with material quite irrelevant to hostile objects that might some day appear. The Panel agreed generally that this mass of poor-quality reports containing little, if any, scientific data was of no value. Quite the opposite, it was possibly dangerous in having a military service foster public concern in "nocturnal wandering lights". The implication being, since the interested agency was military, that these objects were or might be potential direct threats to national security. Accordingly, the need for declassification made itself apparent. Comments on a possible educational program are commented below.

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It was the opinion of Dr. Robertson that the "saucer" problem had been found to be different in nature from the detection and investigation of German V-1 and V-2 guided missiles prior to their operational use in World War II. In this 1942-1944 intelligence operation (CROSSECH), there was excellent intelligence and by June 1944 there was material evidence of the existence of "hardware" obtained from crashed vehicles in Sweden. This evidence gave the investigating team a basis upon which to operate. The absence of any "hardware" resulting from unexplained U.F.O. sightings leads a "will-of-the-wisp" nature to the AFIC problem. The results of their investigation, to date, strongly indicate that no evidence of hostile act or danger exists. Furthermore, the current reporting system would have little value in the case of detection of enemy attack by conventional aircraft or guided missiles; under such conditions "hardware" would be available almost at once.

ATTITUDE OF INTERPRETATION

It was interesting to note that none of the members of the Panel were loath to accept that this earth might be visited by extra-terrestrial intelligent beings of some sort, some day. What they did not find was any evidence that related the objects sighted to space travelers. Mr. Fournet, in his presentation, showed how he had eliminated each of the known and probable causes of sightings leaving him "extra-terrestrial" as the only one remaining in many cases. Fournet's background as an astronomical engineer and technical intelligence

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officer (Project Officer, BLUEBOOK for 15 months) could not be
sighted. However, the Panel could not accept any of the cases
sighted by him because they were raw, unevaluated reports.

Terrestrial explanations of the sightings were suggested in some
cases and in others the time of sighting was so short as to cause
suspicion of visual impressions. It was noted by Dr. Goudswaart and
others that extraterrestrial artifacts, if they did exist, are no
cause for alarm; rather, they are in the realm of natural phenomena
subject to scientific study, just as cosmic rays were at the time
of their discovery 20 to 30 years ago. This was an attitude in
which Dr. Robertson did not concur, as he felt that such artifacts
would be of immediate and great concern not only to the U. S. but
to all countries. (Nothing like a common threat to unite peoples!)

Dr. Page noted that present astronomical knowledge of the solar
system makes the existence of intelligent beings (as we know the
term) elsewhere than on the earth extremely unlikely, and the
concentration of their attention by any controllable means confined
to any one continent of the earth quite preposterous.

THE 1961 UTAH SIGHTING

This case was considered significant because of the excellent
documentary evidence in the form of Kodachrome motion picture films
(about 1600 frames). The Panel studied these films, the case history,
AFIC's interpretation, and received a briefing by representatives of
the USN Photo Interpretation Laboratory on their analysis of the
film. This team had expended (at Air Force request, approximately

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1000 man-hours of professional and sub-professional time in the preparation of graph plots of individual frames of the film, showing apparent and relative motion of objects and variation in their light intensity. It was the opinion of the P.I.L. representatives that the objects sighted were not birds, balloons or aircraft, were "not reflections because there was no blinking while passing through 60° of arc" and were, therefore, "self-luminous". Plots of motion and variation in light intensity of the objects were displayed. While the Panel Members were impressed by the evident enthusiasm, industry and extent of effort of the P.I.L. team, they could not accept the conclusions reached. Some of the reasons for this were as follows:

- a. A semi-spherical object can readily produce a reflection of sunlight without "blinking" through 60° of arc travel.
 - b. Although no data was available on the "blinking" of birds or polyethylene balloons in bright sunlight, the apparent motions, sizes and brightnesses of the objects were considered strongly to suggest birds, particularly after the Panel viewed a short film showing high reflectivity of seagulls in bright sunlight.
 - c. P.I.L. description of the objects sighted as "spherical, bluish-white" in color would be consistent in cases of specular reflections of sunlight from smooth surfaces where the brilliancy of the reflection would obscure other portions of the object.
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- d. Objects in the Great Falls case were believed to have probably been aircraft, and the bright lights such reflections.
 - e. There was no valid reason for the attempt to relate the objects in the Tremonton sighting to those in the Great Falls sighting. This may have been due to misunderstanding in their directive. The objects in the Great Falls sighting are strongly suspected of being reflections of aircraft known to have been in the area.
 - f. The intensity change in the Tremonton lights was too great for acceptance of the P.I.L. hypothesis that the apparent motion and changing intensity of the lights indicated extremely high speed in small orbital paths.
 - g. Apparent lack of guidance of investigators by their familiarity with U.F.O. reports and explanations.
 - h. Analysis of light intensity of objects made from duplicate rather than original film. The original film was noted to have a much lighter background (affecting relative brightness of object) and the objects appeared much less bright.
 - i. Method of obtaining data of light intensity appeared faulty because of unreliability of equipment and questionable assumptions in making averages of readings.
 - j. No data had been obtained on the sensitivity of Kodachrome film to light of various intensities using the same camera type at the same lens openings.
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k. Hand "jitter" frequencies (obtainable from early part of
Tremont film) were not removed from the plots of the
"single pass plots" at the end of the film.

The Panel believed strongly that the data available on this
sighting was sufficient for positive identification if further data
is obtained by photographing polyethylene "pillows" balloons released
near the site under similar weather conditions, checking bird flight
and reflection characteristics with competent ornithologists and
calculating apparent "G" forces acting upon objects from their apparent
tracks. It was concluded that the results of such tests would prob-
ably lead to creditable explanations of value in an educational or
training program. However, the Panel noted that the cost in technical
manpower effort required to follow up and explain every one of the
thousand or more reports received through channels each year (1,500 in
1952) could not be justified. It was felt that there will always be
sightings for which complete data is lacking, that can only be
explained with disproportionate effort and with a long time delay, if
at all. The long delay in explaining a sighting tends to eliminate
any intelligence value. The educational or training program should
have as a major purpose the distribution of popular fact sheets on
sighting, no matter how poor the data, must be explained in detail.
Attention should be directed to the requirement among scientists that
a new phenomenon, to be accepted, must be completely and convincingly
documented. In other words, the burden of proof is on the sighter,
not the explainer. Why?

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POTENTIAL RELATED DANGERS

The Panel Members were in agreement with O/SI opinion that, although evidence of any direct threat from these sightings was wholly lacking, related dangers might well exist resulting from:

- a. Misidentification of actual enemy artifacts by defense personnel.
- b. Overloading of emergency reporting channels with "false" information ("noise to signal ratio" analogy--Buckner).
- c. Subjectivity of public to mass hysteria and greater vulnerability to possible enemy psychological warfare.

Although not the concern of CIA, the first two of these problems may seriously affect the Air Defense intelligence system and should be studied by experts, possibly under ADJ. If U.S.O.'s become discredited in a reaction to the "flying saucer" craze, or if reporting channels are saturated with false and poorly documented reports, our capability of detecting hostile activity will be reduced.

Dr. Page noted that more consistent screening or filtering of reported sightings at command-the-source is required, and that this can best be accomplished by an educational program.

GEOMETRIC LOCATION & CORRELATION OF SIGHTINGS

The map prepared by ADJ3 showing geographic locations of officially reported unidentified sightings (1952 only) was examined by the Panel. This map showed clusters in certain strategic areas such as Los Alamos. This might be explained on the basis of 24-hour watchful guard and

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awareness of security measures near such locations. On the other hand, there had been no sightings in the vicinity of sensitive related AB establishments while there were occasionally multiple cases of unexplained sightings in non-strategic areas. Furthermore, there appeared to be no logical relationship to population centers. The Panel could find no ready explanation for these clusters. It was noted, however, that if terrestrial artifacts were to be observed it would be likely that they would be seen first near foreign areas rather than central U. S.

DISSEMINATION TO OFFICIAL DATA

The Panel was of the opinion that the present ATIC program to place 100 inexpensive 35 mm. stereo cameras in the hands of various airport control tower operators would probably produce little valuable data related to U.F.O.'s. However, it was recognized that such action would tend to allay public concern in the subject until an educational program had taken effect. It was believed that procurement of these cameras was partly the result of public pressure in July 1952. With the poor results of the year-long Project TWINKLE program of 24-hour instrumentation watch (two frames of film showing nothing distinguishable), a widespread program of sky-watching would not be expected to yield much direct data of value.

There was considerable discussion of a possible "sky patrol" by amateur astronomers (Hynek) and by wide-angle cameras (Fago). Dr. Fago and Dr. Robertson pointed out that at present a considerable fraction

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of the sky is now and has been for many years under surveillance every clear night in several meteor and camera observing programs as well as sky mapping programs at the various locations listed below. Although the attention of these astronomers is largely directed toward identified rather than unidentified objects, no case of any striking unidentified object is known to Dr. Page or Dr. Hynak. Such an object would most certainly be reported if found on patrol plates.

A case was cited where an astronomer refused to interrupt his exposure in order to photograph an alleged sighting in a different part of the sky. This led Dr. Hynak to say that, if a program of watching could be an adjunct of planned astronomical programs, little cost would be involved and that the trained astronomical personnel might photograph a sighting of an unidentified object.

The location of some of these programs and their directors are believed to be:

- a. Harvard University, Cambridge and New Mexico (meteor patrol) -- Whipple.
- b. Yerkes Observatory, University of Chicago and Fort Davis, Texas (several programs) -- Melner (aurorae), Kuiper (asteroids), Mergin (wide angle camera).
- c. University of Alaska, Fairbanks (aurorae) -- Ilvay.
- d. Dominion Observatory, Ottawa (meteors) -- Illman.
- e. Palomar Observatory, California (sky map) -- Slinkowski.
- f. Lick Observatory, California (sky map) -- Shomo.

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It was agreed by the Panel that no government-sponsored program of optical nation-wide sky patrol is worthwhile at the present time, and that the encouragement of amateur astronomers to undertake such a program might have the adverse effect of over-emphasizing "flying saucer" stories in the public mind. However, the issue of radar'scope cameras for recording popular radar echoes would serve several purposes, including the better understanding of radar interference as well as identification of U.F.O.'s.

RADAR PROBLEM OF ACTUAL INTERFERENCE

This characteristic problem of radar operation wherein the pulse signal (of approximately the same frequency) from station A may be picked up on the screen of station B and show as a high-speed track or series of dots was recognized to have probably caused a number of U.F.O. reports. This problem was underlined by information received indicating ADG concern in solving this problem of signal identification before service use of very high-speed aircraft or guided missiles (1955-1956). Dr. Perle believed that one answer to this problem was the use of a "Doppler filter" in the receiving circuit. Dr. Alvarez suggested that the problem might be better solved by the use of a "controlled jitter" wherein the operator receiving "very fast tracks" (on the order of 1000-10,000 n.p.h.) would operate a circuit which would alter slightly his station's pulse frequency rate. If the signal received on the screen had been caused by actual interference with another station, the track would now show itself at a different distance.

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from the center of the screen, if it still appeared at all. Dr. Alvarez --
that such a technical solution was simpler and would cost much less than
a "doppler filter".

UNIDENTIFIED COSMIC RAY PHENOMENA

The reported cases were examined: one at Palomar Mountain, California, in October 1949, when cosmic ray counters went "off scale for a few seconds", apparently while a "V" of flying saucers was observed visually; and two, a series of observations by the "Los Alamos Bird Watchers Association" from August 1950 to January 1951, when cosmic ray coincidence counters behaved queerly. Circuit diagrams and records were available for the latter, and Dr. Alvarez was able quickly to point out that the recorded data were undoubtedly due to instrumental effects that would have been recognized at such by more experienced observers.

The realization that radioactive effects were correlated with unidentified flying objects in these two cases was, therefore, repeated by the Panel.

INTERNATIONAL PROGRAM

The Panel's concept of a broad educational program integrating efforts of all concerned agencies was that it should have two major aims: training and "debunking".

The training aim would result in proper recognition of unusually illuminated objects (e.g., balloons, aircraft reflections) as well as natural phenomena (e.g., meteors, fireballs, mirages, noctilucent clouds). Both visual and radar recognition are concerned. There would be many

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

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Mars², (a study in the psychology of panic, written about the famous Orson Welles radio broadcast in 1938) and has since performed advanced laboratory studies in the field of perception. The name of Don Marquis (University of Michigan) and Leo Rosten were mentioned as possibly suitable as consultant psychologists. Also, someone familiar with mass communication techniques, propaganda advertising expert, would be helpful. Arthur Coffey was mentioned as possibly a valuable channel of communication reaching a mass audience of certain levels. Dr. Burrier suggested the U. S. Navy (ONI) Special Devices Center, San Diego Point, L. I., as a potentially valuable organization to assist in such an educational program. The torching techniques used by this agency for aircraft identification during the past war was cited as an example of a similar educational task. The Jan Brady Co. which made World War II training films (motion pictures and slide strips) was also suggested, as well as Walt Disney, Inc. animated cartoons. Dr. Hynak suggested that the amateur astronomers in the U. S. might be a potential source of enthusiastic talent to spread the gospel. It was believed that business clubs, high schools, colleges, and television stations would all be pleased to cooperate in the showing of documentary type motion pictures if prepared in an interesting manner. The use of two cases showing first the "mythology" and then the "exploration" would be forceful.

To plan and execute such a program, the Panel believed was no mean task. The current investigatory group at ATIC would, of necessity, have to be closely integrated for support with respect to not only the

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would be the photographing of "pillow balloons" at different distances under similar weather conditions at the site.

The help of one or two psychologists and writers and a subcontractor to produce training films would be necessary in addition. The Panel considered that AFIO's efforts, temporarily expanded as necessary, could be most useful in implementing any action taken as a result of its recommendations. Experience and records of AFIO would be of value in both the public educational and service training programs envisioned. Dr. Robertson at least was of the opinion that after public gullibility lessened and the service organizations, such as AFIO, had been trained to sift out the more readily explained symptoms sightings, there would still be a need for a very modest-sized AFIO section to cope with the residue of stores of possible scientific intelligence value. This section should concentrate on systematically following up (perhaps on the advice of qualified Air Force Scientific Advisory Board members) those sightings which seemed to indicate the existence of unconventional energy artifacts. Reports of such artifacts would be expected to arise mostly from known sources in far closer proximity to the Iran-Caracas than Karachi, for

UNRECORDED INFORMATION

The Panel was concerned at the existence of such groups as "Scientific Film & Camera Laboratory" (San Francisco) and the "National Electronic Research Foundation" (Albany, N.Y.) and believed that such organizations should be watched because of their potentiality

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great influence on mass thinking if widespread sightings should occur.

The apparent irresponsibility and the possible use of such groups for subversive purposes should be kept in mind.

DECREASE IN NUMBER OF SIGHTINGS

The consensus of the Panel was, based upon the history of the subject, that the number of sightings could be reasonably expected to increase again this summer.

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REPORT OF THE SCIENTIFIC PANEL
ON
UNIDENTIFIED FLYING OBJECTS

JAN 17 1953

1. Pursuant to the request of the Assistant Director for Scientific Intelligence, the undersigned Panel of Scientific Consultants has met to evaluate any possible threat to national security posed by Unidentified Flying Objects ("Flying Saucers"), and to make recommendations thereon. The Panel has received the evidence as presented by cognizant intelligence agencies, primarily the Air Technical Intelligence Center, and has reviewed a selection of the best documented incidents.

2. As a result of its considerations, the Panel concludes

a. That the evidence presented on Unidentified Flying Objects shows no indication that these phenomena constitute a direct physical threat to national security.

We firmly believe that there is no residual of cases which indicate phenomena which are attributable to foreign artifacts capable of such acts, and that there is no evidence that the phenomena indicate a basis for the revision of our current intelligence concepts.

3. The Panel further concludes

a. That the continued emphasis on the report of these phenomena does, in the long run, result in a threat to the orderly functioning of the protective organs of the body politic.

We cite as examples the clogging of the ears of communication by false reports, the danger of being led by continued false alarms to ignore real

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indications of hostile action, and the cultivation of a morbid national psychology in which skillful hostile propaganda could induce hysterical behavior and harmful distrust of duly constituted authority.

4. In order most effectively to strengthen the national facilities for the timely recognition and the appropriate handling of true indications of hostile action, and to minimize the confusion and delay attendant upon the above, the Panel recommends:

a. That the national security agencies take immediate steps to strip the Unidentified Flying Objects of the mystique and status they have been given and the aura of mystery they have not legitimately acquired;

b. That the national security agencies take immediate steps to improve intelligence, training, and public information designed to prepare the national defenses and the people of this country to recognize most promptly and to react most effectively to the indications of hostile intent or action.

We suggest that these aims may be achieved by an integrated program designed to reassure the public of the sound basis of evidence on which the Government is proceeding; to train the public to recognize and to react to false indications quickly and effectively; and to strengthen the national defenses for the purpose of preventing and repelling hostile action.

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SCIENTIFIC ADVISORY PANEL ON
UNIDENTIFIED FLYING OBJECTS

14 - 17 January 1953

EVIDENCE PRESENTED

1. Seventy-five case histories of sightings 1951 - 1952 (collected by ATIC as those best documented).
2. ATIC Status and Progress Reports of Project GRUDGE and Project BLUE BOOK (code names for ATIC study of subject).
3. Progress Reports of Project STORM (code name for Pathe-Mouette Institute contract work supporting ATIC).
4. Summary Report of Sightings at Holloman Air Force Base, New Mexico.
5. Report of USAF Research Center, Cambridge, Mass., Investigation of "Green Fireball" Phenomena (Project TWINKLE).
6. Outline of Investigation of U.F.O.'s Proposed by Kirtland Air Force Base (Project POUNCE).
7. Motion Picture Films of sightings at Tremonton, Utah, 2 July 1952 and Great Falls, Montana, August 1950.
8. Summary Report of 89 selected cases of sightings of various categories (Formations, Blinking Lights, Hovering, etc.).
9. Draft of manual: "How to Make a FLICSRPT", prepared at ATIC.
10. Chart Showing Plot of Geographic Location of Unexplained Sightings in the United States during 1952.
11. Chart Showing Balloon Launching Sites in the United States.
12. Charts Showing Selected Actual Balloon Flight Paths and Related to Reported Sightings.
13. Charts Showing Frequency of Reports of Sightings, 1951 - 1952.
14. Charts Showing Categories of Explanations of Sightings.
15. Kodachrome Transparencies of Polyethylene Film Balloons in Sunlight Showing High Reflectivity.

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16. Motion picture of balloons in flight, showing the effect of wind on balloons.
 17. Intelligence Reports Relating to U.S.S.R. Interest in U.S. Balloons.
 18. Samples of Official USAF Reporting Forms and Copies of Reports from Air Force, Army and Navy Offices Relating to Subject.
 19. Sample Polyethylene "Pillow" Balloon (54 inches square).
 20. "Variations in Radar Coverage", JAMP 1111 (Manual illustrating normal operating characteristics of Service radar).
 21. Miscellaneous official letters and foreign intelligence reports dealing with subject.
 22. Copies of popular published works dealing with subject (articles in periodicals, newspaper clippings and books).
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SCIENTIFIC ADVISORY PANEL ON

UNIDENTIFIED FLYING OBJECTS

14 - 17 January 1953

<u>MEMBERS</u>	<u>ORGANIZATION</u>	<u>FIELD OF COMPETENCY</u>
Dr. H. P. Robertson (Chairman)	California Institute of Technology	Physics, weapons systems
Dr. Luis W. Alvarez	University of California	Physics, radar
Dr. Lloyd V. Berkner	Associated Universities, Inc.	Geophysics
Dr. Samuel Goudamit	Brookhaven National Laboratories	Atomic structure, statistical problems
Dr. Thornton Page	Office of Research Operations, Johns Hopkins University	Astronomy, Astrophysics

ASSOCIATE MEMBERS

Dr. J. Allen Hynek	Ohio State University	Astronomy
Mr. Frederick C. Durant	Arthur D. Little, Inc.	Rockets, guided missiles

INTERVIEWEES

Brig. Gen. William M. Garland	Commanding General, ATIC	Scientific and technical intelligence
Dr. H. Marshall Chubbell	Assistant Director, O/SI, CIA	Scientific and technical intelligence
Mr. Ralph L. Click	Deputy Assistant Director, O/SI, CIA	Scientific and technical intelligence

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